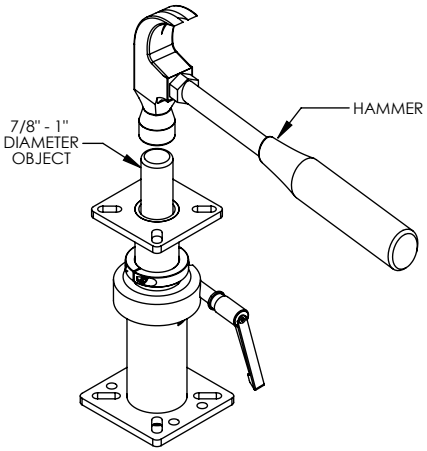
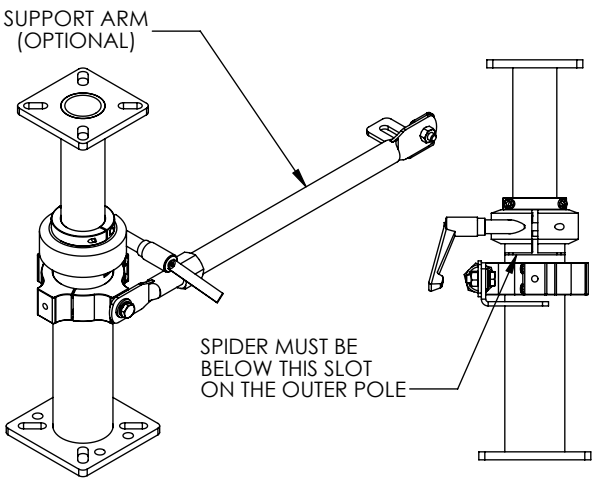
PROJECT #	REV.	DESCRIPTION	DATE	BY	CHECKED BY
1765	3-13	REVISION DATE CORRECTED TO PT895 DOCUMENTED CHANGE. NO OTHER CHANGES	8/5/2014	KDAVIS	



A- GUIDE RING BUSHING REMOVAL

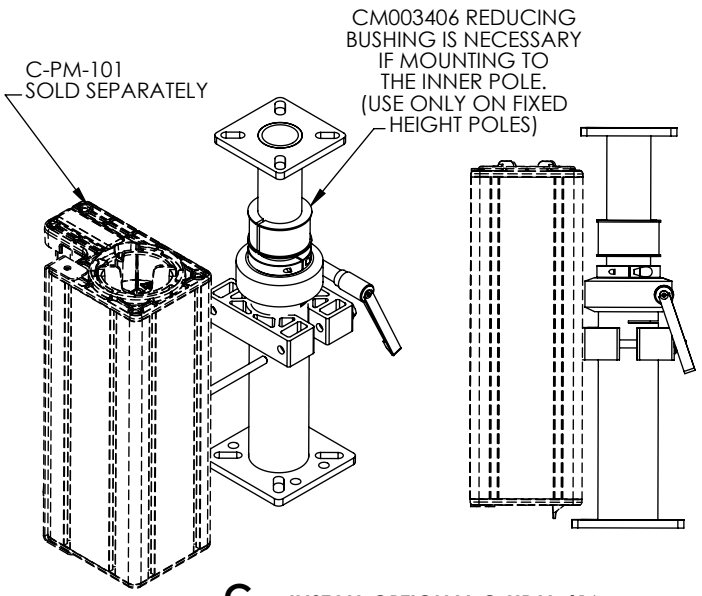
WE STRONGLY RECOMMEND NOT TO REMOVE THE GUIDE RING BUSHING, BUT IF REMOVAL OF INNER POLE IS DESIRED - FOLLOW THIS SIMPLE REMOVAL INSTRUCTION

1. INSERT MAXIMUM 1" DIAMETER OBJECT WITH SUFFICIENT LENGTH AND DROP INSIDE INNER POLE.
2. MAKE SURE NOTHING PREVENTS GUIDE RING BUSHING FROM BEING EJECTED UNDERNEATH. HIT WITH A HAMMER TO FORCE THE GUIDE RING BUSHING OUT.



B - INSTALL SPIDER COLLAR (OPTIONAL COMES WITH C-HDM-401 & 403)

1. IF MOUNTING THE SPIDER COLLAR TO THE INNER POLE USE CM003406 REDUCING BUSHING. SPREAD AND SNAP OVER THE INNER POLE.
2. LOOSELY ATTACH SPIDER COLLAR TO THE OUTER POLE OR CM003406. DO NOT MOUNT SPIDER COLLAR ABOVE OUTER POLE HORIZONTAL CUT.

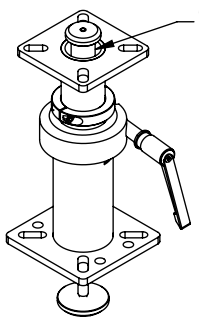


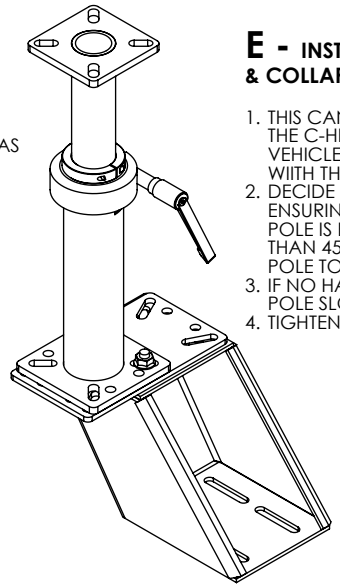
C - INSTALL OPTIONAL C-HDM-416

1. IF MOUNTING C-HDM-416 TO THE INNER POLE USE CM003406. SPREAD THE PIECE AND IT SHOULD SNAP OVER THE INNER POLE.
2. ATTACH C-PM-101 TO CLAMP ASSEMBLY USING LONG CARRIAGE BOLTS INSERTED THROUGH THE PRINTER AND ONE PIECE OF EXTRUSION.
3. ATTACH POLE CLAMP TO THE OUTER POLE OR CM003406. AFFIX SECOND PIECE OF EXTRUSION AROUND POLE AND LOOSELY TIGHTEN THE HARDWARE. DO NOT MOUNT CLAMP ABOVE OUTER POLE HORIZONTAL CUT.

D- INSTALL GAS SHOCK (OPTIONAL)

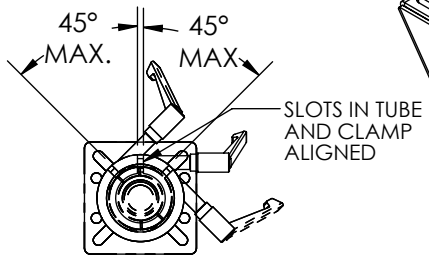
1. (SKIP IF GAS SHOCK IS NOT IN USE)
2. UNSCREW SMALL PLASTIC DISC FROM SHOCK INSERT GAS SHOCK ASSEMBLY UPWARD FROM THE BOTTOM OF HDM POLE ASSEMBLY WITH GAS SHOCK'S ROD FACING DOWNWARD. GAS SHOCK WILL SANDWICH BETWEEN MOUNTING BASE C-HDM-100 SERIES (NOT SHOWN) AND ACTION ADAPTER C-HDM-300 SERIES (NOT SHOWN).
3. ONCE GAS SHOCK SITS PROUD OF THE INNER POLE REATTACH SMALL PLASTIC DISC

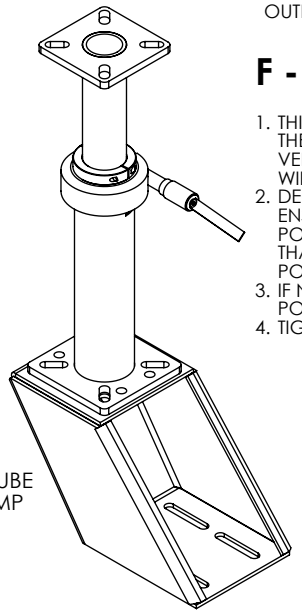




E - INSTALL C-HDM-409 OPTIONAL & COLLAR CLAMP ALIGNMENT

1. THIS CAN BE DONE EITHER AT THIS POINT OR ONCE THE C-HDM-100 SERIES BASE IS ALREADY IN THE VEHICLE. YOU WILL NEED THE OFFSET THAT WAS WIITH THE C-HDM-100 BASE IF APPLICABLE.
2. DECIDE ON THE ORIENTATION OF THE C-HDM-409. ENSURING THAT IF THE HANDLE VERSION OF THE POLE IS BEING USED THE TWO SLOTS ARE NO MORE THAN 45 DEG APART IF THIS IS THE CASE ROTATE THE POLE TO THE CORRECT POSITION.
3. IF NO HANDLE IS BEING USED ENSURE THE OUTER POLE SLOT AND THE CLAMP COLLAR SLOT LINE UP.
4. TIGHTEN ALL THE HARDWARE.





F - INSTALL C-HDM-410-412 OPTIONAL

1. THIS CAN BE DONE EITHER AT THIS POINT OR ONCE THE C-HDM-100 SERIES BASE IS ALREADY IN THE VEHICLE. YOU WILL NEED THE OFFSET THAT WAS WIITH THE C-HDM-100 BASE IF APPLICABLE.
2. DECIDE ON THE ORIENTATION OF THE OFFSET. ENSURING THAT IF THE HANDLE VERSION OF THE POLE IS BEING USED THE TWO SLOTS ARE NO MORE THAN 45 DEG APART IF THIS IS THE CASE ROTATE THE POLE TO THE CORRECT POSITION.
3. IF NO HANDLE IS BEING USED ENSURE THE OUTER POLE SLOT AND THE CLAMP COLLAR SLOT LINE UP.
4. TIGHTEN ALL THE HARDWARE.

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TITLE:
INSTALLATION INSTRUCTIONS, C-HDM MOUNTING BASES

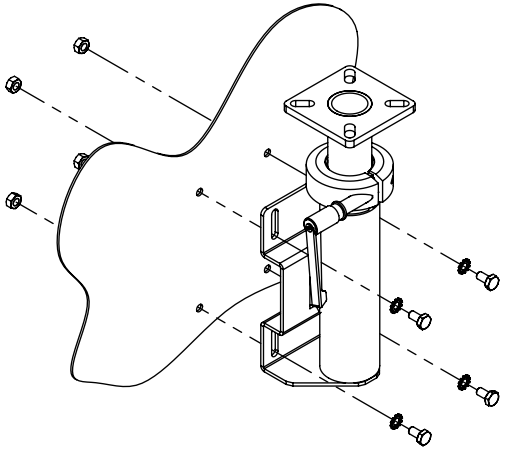
DO NOT SCALE DRAWING

SIZE	DWG. NO.	REV
A	C-HDM_INST	3-13

WEIGHT (LB): 8.362	SCALE: 1:8	SHEET 1 OF 4

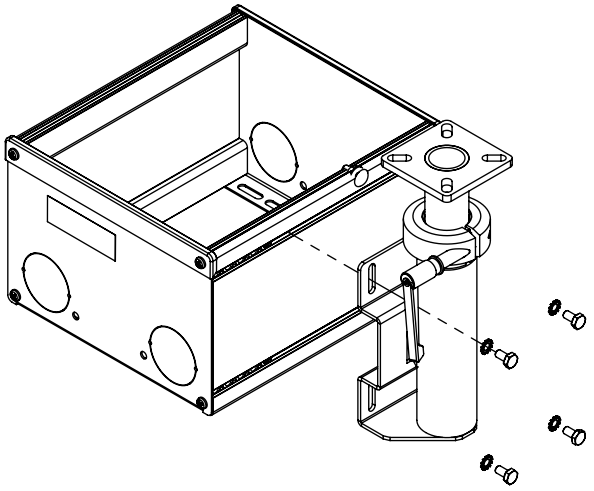
FOR VEHICLE MOUNTING THAT REQUIRES DRILLING

1. INSPECT ALL AREAS BEFORE DOING ANY DRILLING ENSURE NO SERIOUS DAMAGE HAPPENS TO THE VEHICLE.
2. SECURE THE MOUNT WITH SUPPLIED HARDWARE KIT.



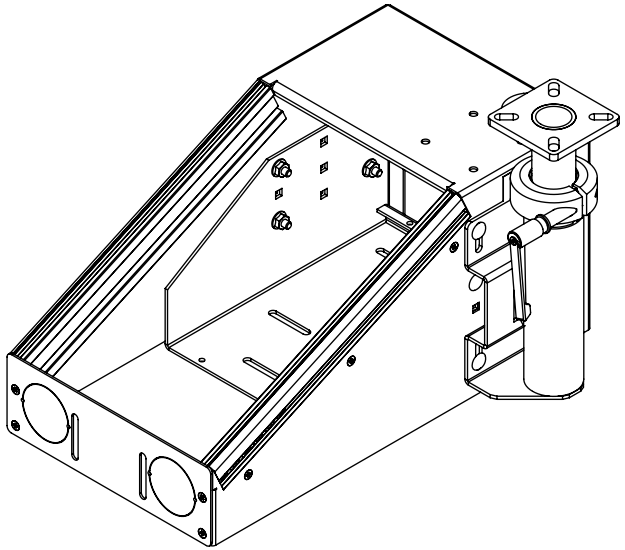
C-HDM-204 SHOWN
STANDARD FLAT SURFACE MOUNTING
FOR FLAT SURFACE MOUNTING OF C-HDM-204, 205, 212, 213, 214, 215, 216 AND 217 (INCLUDING HAVIS CONSOLES WHICH DO NOT HAVE HOLES PRE-DRILLED)

1. POSITION POLE MOUNT IN DESIRED LOCATION
2. MARK AND DRILL 1/4" HOLES INTO THE MOUNTING SURFACE (SEE NOTES FOR DRILLING)
3. THROUGH-BOLT USING 1/4" HARDWARE PROVIDED WITH THE MOUNT OR EQUIVALENT HARDWARE IF NECESSARY.



C-HDM-204 SHOWN
STANDARD CONSOLE SIDE MOUNTING
FOR CONSOLE SIDE MOUNTING OF C-HDM-204, 205, 212, 213, 214, 215, 216 AND 217 (WHERE CONSOLE HAS PRE-INSTALLED NUTS IN CONSOLE RAIL)

1. TO ATTACH C-HDM-204, 205, 214, 215
2. LOOSEN THE RETAINING SET SCREW TO ALLOW THE NUTS TO BE POSITIONED AS DESIRED IN THE TRACK.
3. LINE UP THE MOUNT WITH THE NUTS IN THE CONSOLE,
4. ATTACH USING HARDWARE PROVIDED WITH THE MOUNT, OR EQUIVALENT 1/4-20 X 1/2" LONG (MAX.) BOLTS AND FLAT WASHERS.



C-HDM-204 SHOWN
PRE-DRILL;ED CONSOLE SIDE MOUNTING
FOR CONSOLE SIDE MOUNTING OF C-HDM-204, 205, 212, 213, 214, 215, 216 AND 217 (WHERE CONSOLE HAS PRE-INSTALLED NUTS IN CONSOLE RAIL)

1. TO ATTACH C-HDM-204, 205, 214, 215
2. LINE UP THE MOUNT WITH THE PREDRILLED HOLES IN THE CONSOLE,
3. ATTACH USING HARDWARE PROVIDED WITH THE MOUNT, OR EQUIVALENT 1/4-20 BOLTS.
4. DEPENDING ON THE DESIRED POSITION, HOLES MAY NEED TO BE DRILLED, OR ONE (1) BOLT CAN USE THE NUT TRACK WITH A 1/4-20 X 1/2" LONG BOLT.

NOTE:
MOST C-VS (VEHICLE SPECIFIC) SERIES CONSOLES HAVE HOLES FOR AN HDM-204 OR 214 PRE-DRILLED. IF ANOTHER LOCATION IS DESIRED, HOLES MAY NEED TO BE DRILLED

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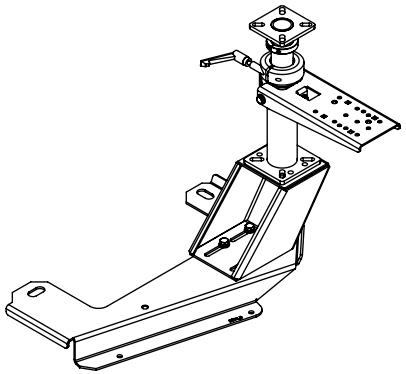
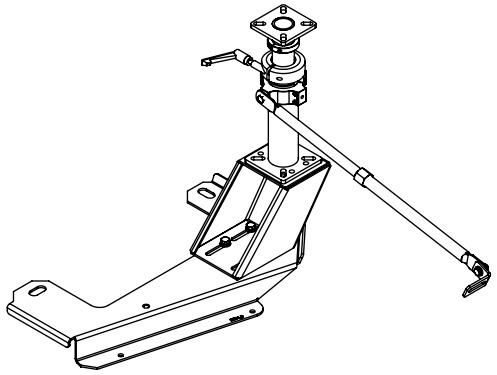
A	C-HDM_INST	3-13

WEIGHT (LB): 0.00	SCALE: 1:8	SHEET 2 OF 4



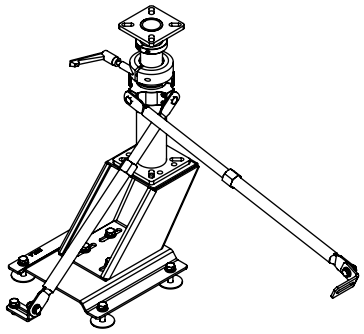
A- C-HDM-403 HORIZONTAL PRINTER MOUNT

1. LOOSELY ATTACH SPIDER (CLAMP) COLLAR TO POLE WITH HARDWARE SUPPLIED (IF NOT ALREADY ATTACHED). POSITION AS DESIRED AND TIGHTEN HARDWARE.
2. ATTACH C-HDM-403 PLATE USING HARDWARE PROVIDED. AVOID TIGHTENING SCREWS IF AN OFFSET ARM IS TO BE ADDED.
3. ATTACH DESIRED ITEM TO SHELF BRACKET.
4. ***THE C-HDM-403 WORKS VERY WELL IF THERE IS NO CENTER CONSOLE. SPACE IS VERY LIMITED AND WILL CAUSE LACK OF LEG ROOM IF THE VEHICLE DOES HAVE A CENTER CONSOLE.***



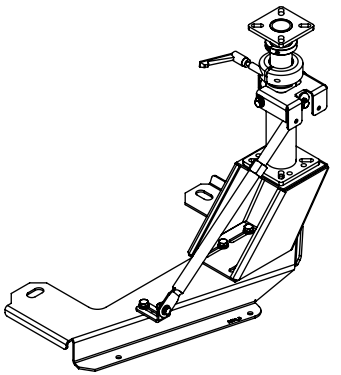
B- C-HDM-401 SUPPORT ARM

1. LOOSELY ATTACH SPIDER (CLAMP) COLLAR TO POLE WITH HARDWARE SUPPLIED (IF NOT ALREADY ATTACHED). POSITION AS DESIRED AND TIGHTEN HARDWARE.
2. LOOSELY ATTACH C-HDM-401 USING HARDWARE PROVIDED.
3. FIND A SUITABLE LOCATION TO ATTACH THE OTHER END OF THE SUPPORT ARM. SOME VEHICLES HAVE HOLES UNDER THE DASH OR OEM HARDWARE THAT CAN BE UTILISED. LOOSELY ATTACH TAB PROVIDED.
4. EXTEND THE ARM ATTACHING THE TAB TO THE SUPPORT ARM WITH THE HARDWARE PROVIDED.
5. TIGHTEN ALL HARDWARE.



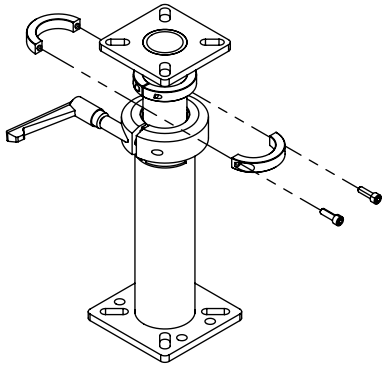
C- C-HDM-404 SUPPORT ARM

1. THE C-HDM-404 IS PRIMARILY USED FOR UNIVERSAL FLOOR MOUNTS WHEN PREMIUM STRENGTH / 3 POINT MOUNTING IS NECESSARY.
2. COMPLETE SECTION B.
3. LOOSELY ATTACH C-HDM-404 USING HARDWARE PROVIDED.
4. THE MAJORITY OF HAVIS BASES HAVE AN EXTRA PEM IN ORDER TO ATTACH TO THE SUPPORT ARM. IF NOT FIND ANOTHER LOCATION OR DRILL AND THROUGH BOLT THE TAB BRACKET.
5. EXTEND THE SUPPORT ARM AND ATTACH WITH SUPPLIED HARDWARE.
6. TIGHTEN ALL HARDWARE.



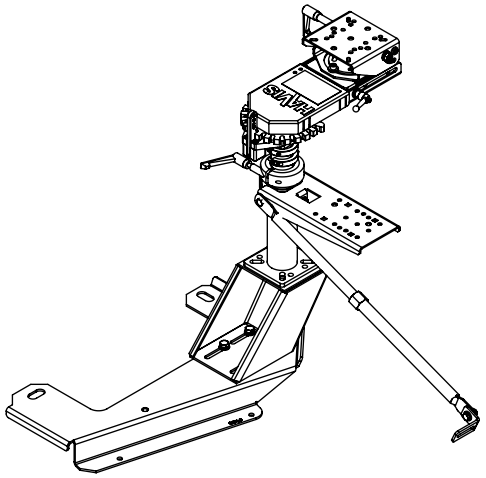
D- C-HDM-417 VERTICAL PRINTER MOUNT

1. COMPLETE SECTION B.
2. LOOSELY ATTACH C-HDM-417 BRACKET USING THE HARDWARE PROVIDED.
3. SLIDE TWO CARRIAGE BOLTS IN THE C-PM-101 SLOTS.
4. LOCATE THE TWO HOLES IN THE C-HDM-417 BRACKET PUSH THE CARRIAGE BOLTS THROUGH THE HOLES AND FINGER TIGHTEN THE SERRATED NUTS PROVIDED.
5. SLIDE THE PRINTER TO THE RIGHT POSITION AND TIGHTEN ALL HARDWARE.



E- ATTACHING THE SHAFT STOP COLLAR THAT COMES WITH TELESCOPING POLE WITH HANDLE

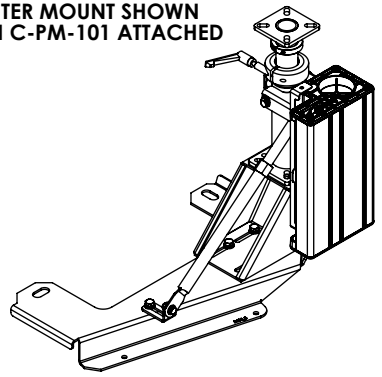
1. SLIDE THE INNER POLE TO THE DESIRED HEIGHT.
2. ATTACH THE SHAFT COLLAR USING THE HARDWARE PROVIDED.
3. INNER POLE SHOULD NOW SPIN FREELY WHILE MAINTAINING THE DESIRED HEIGHT.



F- EXAMPLE OF A FINISHED ASSEMBLY

1. THE ABOVE ASSEMBLY INCLUDES A C-HDM-102, C-HDM-202, C-MD-102, C-HDM-403, C-HDM-404(2X)

D- C-HDM-417 VERTICAL PRINTER MOUNT SHOWN WITH C-PM-101 ATTACHED



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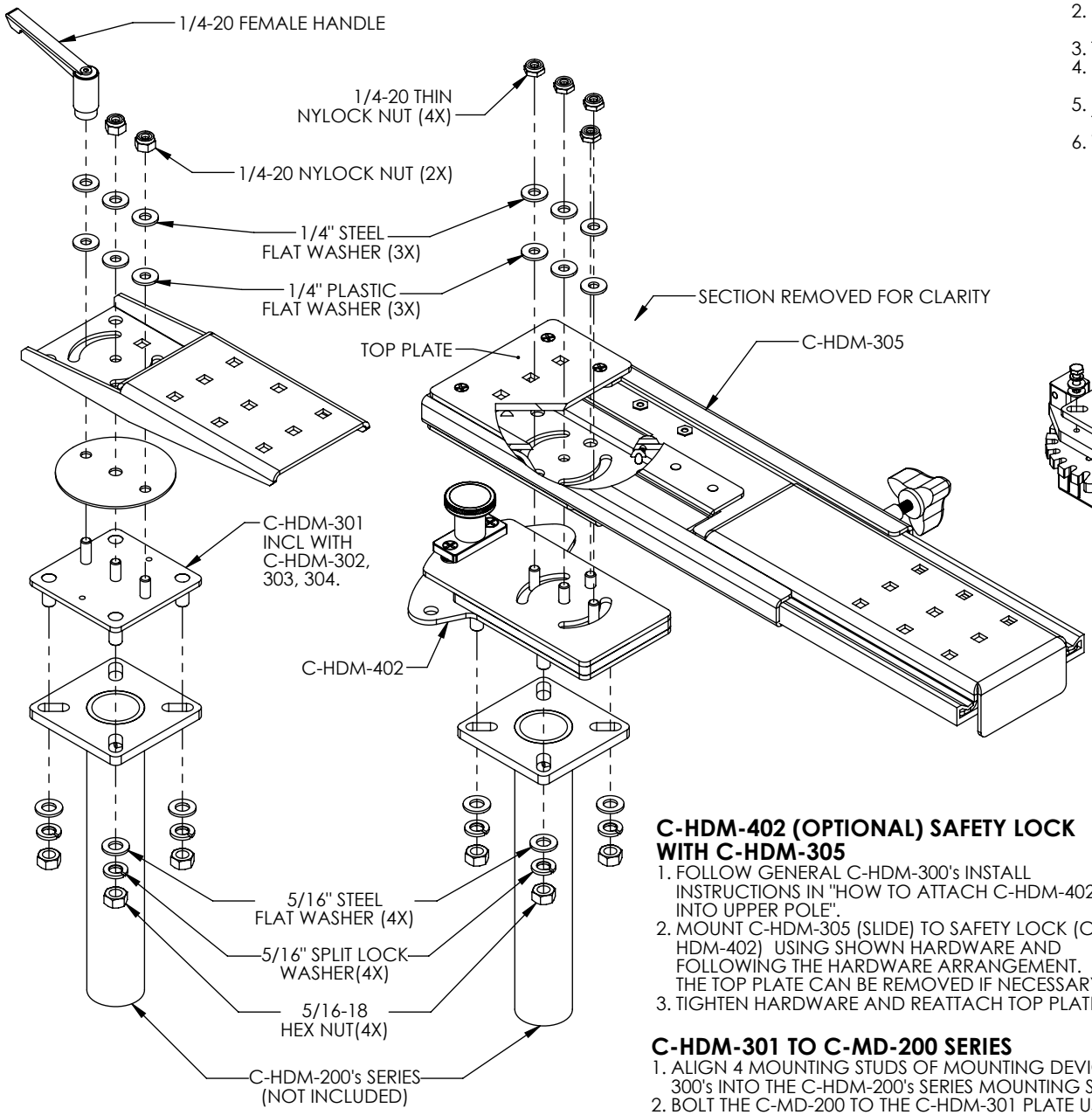
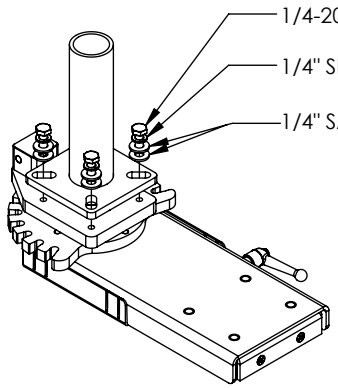
A	C-HDM_INST	3-13

WEIGHT (LB): 4.05	SCALE: 1:8	SHEET 3 OF 4

GENERAL C-HDM-300's INSTALL INSTRUCTIONS

1. ALIGN 4 MOUNTING STUDS OF MOUNTING DEVICE C-HDM-300's INTO THE HDM-200's SERIES MOUNTING SLOTS.
2. BOLT THE MOUNT TOGETHER USING SPECIFIED AND SUPPLIED HARDWARE.
3. TORQUE THE 5/16 HARDWARE TO INDUSTRY STANDARDS .
4. 1/4-20 FEMALE HANDLE CAN BE SUBSTITUTED FOR 1/4-20 NYLOCK NUT.
5. IF THE C-HDM-300 IS TO BE STATIONARY BOLT DIRECTLY TO THE POLE USING 5/16-18 HARDWARE.
6. VISIT US AT www.havis.com TO SEE PICTURES OF INDIVIDUALLY INSTALLED PRODUCTS.





C-HDM-402 (OPTIONAL) SAFETY LOCK WITH C-HDM-305

1. FOLLOW GENERAL C-HDM-300's INSTALL INSTRUCTIONS IN "HOW TO ATTACH C-HDM-402 INTO UPPER POLE".
2. MOUNT C-HDM-305 (SLIDE) TO SAFETY LOCK (C-HDM-402) USING SHOWN HARDWARE AND FOLLOWING THE HARDWARE ARRANGEMENT. THE TOP PLATE CAN BE REMOVED IF NECESSARY
3. TIGHTEN HARDWARE AND REATTACH TOP PLATE.

C-HDM-301 TO C-MD-200 SERIES

1. ALIGN 4 MOUNTING STUDS OF MOUNTING DEVICE C-HDM-300's INTO THE C-HDM-200's SERIES MOUNTING SLOTS.
2. BOLT THE C-MD-200 TO THE C-HDM-301 PLATE USING THE SAME HARDWARE CONFIGURATION FOR THE C-HDM-300 SERIES.
3. TIGHTEN HARDWARE.

C-MD-100 SERIES

1. PLACE C-MD-100 SERIES MOTION DEVICE ON TOP OF POLE MOUNTING SURFACE.
2. LINE UP THE 4 TAPPED HOLES WITH THE UPPER POLE MOUNTING SLOTS.
3. ATTACH THE FOUR 1/4-20 HEX BOLTS & LOCK WASHERS AND FLAT WASHER AS SHOWN THROUGH THE THREADED HOLES OF THE MOTION DEVICE.
4. TIGHTEN HARDWARE.

C-MKM-100 SERIES TO C-HDM-200 SERIES

1. NUT AND BOLT TOGETHER UTILIZING C-HDM-301 AS SHOWN ABOVE.

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A	C-HDM_INST	3-13

WEIGHT (LB): N/A	SCALE: 1:8	SHEET 4 OF 4